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08/03

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ENTERED
See p. 6-7

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/776,479

DATE: 08/08/2002
TIME: 10:35:12

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\08082002\I776479.raw

4 <110> APPLICANT: Bratzler, Robert L.
5 Petersen, Deanna M.
6 Fouron, Yves
9 <120> TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
10 Treatment of Asthma and Allergy
13 <130> FILE REFERENCE: C1037/7013 (HCL/MAT)
C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/776,479
C--> 15 <141> CURRENT FILING DATE: 2001-02-02
15 <150> PRIOR APPLICATION NUMBER: US 60/179,991
16 <151> PRIOR FILING DATE: 2000-02-03
18 <160> NUMBER OF SEQ ID NOS: 1093
20 <170> SOFTWARE: FastSEQ for Windows Version 3.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 18
24 <212> TYPE: DNA
25 <213> ORGANISM: Artificial Sequence
27 <220> FEATURE:
28 <223> OTHER INFORMATION: Synthetic Sequence
30 <400> SEQUENCE: 1
31 tctcccagcg tgcggcat 18
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 20
35 <212> TYPE: DNA
36 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <223> OTHER INFORMATION: Synthetic Sequence
41 <400> SEQUENCE: 2
42 ataatccagc ttgaaccaag 20
44 <210> SEQ ID NO: 3
45 <211> LENGTH: 20
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Synthetic Sequence
52 <400> SEQUENCE: 3
53 ataatcgacg ttcaagcaag 20
55 <210> SEQ ID NO: 4
56 <211> LENGTH: 18
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Synthetic Sequence
63 <400> SEQUENCE: 4

RAW SEQUENCE LISTING
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64 taccgcgtgc gaccctct          18
66 <210> SEQ ID NO: 5
67 <211> LENGTH: 9
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Synthetic Sequence
74 <400> SEQUENCE: 5          9
75 ggggaggg
77 <210> SEQ ID NO: 6
78 <211> LENGTH: 9
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Synthetic Sequence
85 <400> SEQUENCE: 6          9
86 ggggagggg
88 <210> SEQ ID NO: 7
89 <211> LENGTH: 9
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Synthetic Sequence
96 <400> SEQUENCE: 7          9
97 ggtgaggtg
99 <210> SEQ ID NO: 8
100 <211> LENGTH: 20
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <221> NAME/KEY: modified_base
106 <222> LOCATION: (8)...(8)
107 <223> OTHER INFORMATION: m5c
109 <223> OTHER INFORMATION: Synthetic Sequence
W--> 111 <400> 8          20
W--> 112 tccatgtngt tcctgatgtc
114 <210> SEQ ID NO: 9
115 <211> LENGTH: 15
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <221> NAME/KEY: modified_base
121 <222> LOCATION: (11)...(11)
122 <223> OTHER INFORMATION: m5c
124 <223> OTHER INFORMATION: Synthetic Sequence
W--> 126 <400> 9          15
W--> 127 gctacaccttag ngtga
129 <210> SEQ ID NO: 10
130 <211> LENGTH: 20

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131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <221> NAME/KEY: modified_base
136 <222> LOCATION: (8)...(8)
137 <223> OTHER INFORMATION: m5c
139 <223> OTHER INFORMATION: Synthetic Sequence
W--> 141 <400> 10
W--> 142 tccatgangt tcctgatgct 20
144 <210> SEQ ID NO: 11
145 <211> LENGTH: 20
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <221> NAME/KEY: modified_base
151 <222> LOCATION: (13)...(13)
152 <223> OTHER INFORMATION: m5c
154 <223> OTHER INFORMATION: Synthetic Sequence
W--> 156 <400> 11
W--> 157 tccatgacgt tcntgatgct 20
159 <210> SEQ ID NO: 12
160 <211> LENGTH: 15
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <221> NAME/KEY: modified_base
166 <222> LOCATION: (7)...(7)
167 <223> OTHER INFORMATION: m5c
169 <223> OTHER INFORMATION: Synthetic Sequence
W--> 171 <400> 12
W--> 172 gctagangtt agtgt 15
174 <210> SEQ ID NO: 13
175 <211> LENGTH: 19
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Synthetic Sequence
182 <400> SEQUENCE: 13
183 agctccatgg tgctcactg 19
185 <210> SEQ ID NO: 14
186 <211> LENGTH: 20
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Synthetic Sequence
193 <400> SEQUENCE: 14
194 ccacgtcgac cctcaggcga 20
196 <210> SEQ ID NO: 15
197 <211> LENGTH: 20

```

RAW SEQUENCE LISTING
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Input Set : A:\Seqlist.txt
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198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Synthetic Sequence
204 <400> SEQUENCE: 15
205 gcacatcgct ccgcagccga 20
207 <210> SEQ ID NO: 16
208 <211> LENGTH: 19
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Synthetic Sequence
215 <400> SEQUENCE: 16 19
216 gtcactcggt gtacctcga
218 <210> SEQ ID NO: 17
219 <211> LENGTH: 25
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Synthetic Sequence
226 <400> SEQUENCE: 17 25
227 gttggataca ggccagactt tggta
229 <210> SEQ ID NO: 18
230 <211> LENGTH: 25
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Synthetic Sequence
237 <400> SEQUENCE: 18 25
238 gattcaactt gcgctcatct taggc
240 <210> SEQ ID NO: 19
241 <211> LENGTH: 24
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Synthetic Sequence
248 <400> SEQUENCE: 19 24
249 accatggacg aactgtttcc cctc
251 <210> SEQ ID NO: 20
252 <211> LENGTH: 24
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Synthetic Sequence
259 <400> SEQUENCE: 20 24
260 accatggacg agctgtttcc cctc
262 <210> SEQ ID NO: 21
263 <211> LENGTH: 24
264 <212> TYPE: DNA

RAW SEQUENCE LISTING
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Input Set : A:\Seqlist.txt
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265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Synthetic Sequence
270 <400> SEQUENCE: 21
271 accatggacg acctgtttcc cctc 24
273 <210> SEQ ID NO: 22
274 <211> LENGTH: 24
275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Synthetic Sequence
281 <400> SEQUENCE: 22
282 accatggacg tactgtttcc cctc 24
284 <210> SEQ ID NO: 23
285 <211> LENGTH: 24
286 <212> TYPE: DNA
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Synthetic Sequence
292 <400> SEQUENCE: 23
293 accatggacg gtctgtttcc cctc 24
295 <210> SEQ ID NO: 24
296 <211> LENGTH: 24
297 <212> TYPE: DNA
298 <213> ORGANISM: Artificial Sequence
300 <220> FEATURE:
301 <223> OTHER INFORMATION: Synthetic Sequence
303 <400> SEQUENCE: 24
304 accatggacg ttctgtttcc cctc 24
306 <210> SEQ ID NO: 25
307 <211> LENGTH: 25
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial Sequence
311 <220> FEATURE:
312 <223> OTHER INFORMATION: Synthetic Sequence
314 <400> SEQUENCE: 25
315 ccactcacat ctgcgtgtcc acaag 25
317 <210> SEQ ID NO: 26
318 <211> LENGTH: 25
319 <212> TYPE: DNA
320 <213> ORGANISM: Artificial Sequence
322 <220> FEATURE:
323 <223> OTHER INFORMATION: Synthetic Sequence
325 <400> SEQUENCE: 26
326 acttctcata gtcctttgg tccag 25
328 <210> SEQ ID NO: 27
329 <211> LENGTH: 20
330 <212> TYPE: DNA
331 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/08/2002
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Input Set : A:\Seqlist.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 8
Seq#:9; N Pos. 11
Seq#:10; N Pos. 8
Seq#:11; N Pos. 13
Seq#:12; N Pos. 7
Seq#:28; N Pos. 9,11,15
Seq#:29; N Pos. 7,13,18
Seq#:48; N Pos. 8
Seq#:88; N Pos. 8,17
Seq#:89; N Pos. 7
Seq#:113; N Pos. 5
Seq#:179; N Pos. 7
Seq#:180; N Pos. 3
Seq#:222; N Pos. 8,17
Seq#:249; N Pos. 2,6,10,15
Seq#:251; N Pos. 3,8,14
Seq#:284; N Pos. 8
Seq#:288; N Pos. 7
Seq#:289; N Pos. 2,5,9,12,14,16
Seq#:304; N Pos. 2,5,13,21
Seq#:313; N Pos. 8,17
Seq#:335; N Pos. 16
Seq#:336; N Pos. 2,5
Seq#:337; N Pos. 2
Seq#:338; N Pos. 5
Seq#:354; N Pos. 2
Seq#:358; N Pos. 2,5,13,21
Seq#:414; N Pos. 3,8,11,16,19,24
Seq#:698; N Pos. 5
Seq#:707; N Pos. 5
Seq#:709; N Pos. 2
Seq#:710; N Pos. 6
Seq#:728; N Pos. 14
Seq#:729; N Pos. 18
Seq#:730; N Pos. 3
Seq#:731; N Pos. 7
Seq#:732; N Pos. 14
Seq#:760; N Pos. 13
Seq#:762; N Pos. 8
Seq#:763; N Pos. 12
Seq#:764; N Pos. 3,10,14
Seq#:798; N Pos. 6
Seq#:800; N Pos. 8
Seq#:801; N Pos. 6

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Input Set : A:\Seqlist.txt
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Seq#:802; N Pos. 5
Seq#:803; N Pos. 2
Seq#:1001; N Pos. 6
Seq#:1039; N Pos. 9
Seq#:1056; N Pos. 7,11

VERIFICATION SUMMARY
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Input Set : A:\Seqlist.txt
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L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:111 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:126 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:9
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:141 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:156 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:11
L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:171 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:12
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:347 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:351 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:28
L:355 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:28
L:359 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:28
L:360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:370 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:374 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:29
L:378 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:29
L:382 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:29
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:595 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:48
L:596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:1043 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:88
L:1044 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0
L:1058 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:89
L:1059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:0
L:1322 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1326 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:113
L:1330 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:113
L:1334 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:113
L:1335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:0
L:2064 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:179
L:2065 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:179 after pos.:0
L:2079 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:180
L:2080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:180 after pos.:0
L:2380 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:207
L:2553 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:222
L:2554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222 after pos.:0
L:2700 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:235
L:2854 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2858 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:249
L:2862 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:249
L:2866 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:249
L:2870 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:249
L:2871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:249 after pos.:0
L:2892 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

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Input Set : A:\Seqlist.txt
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L:2896 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:251
L:2900 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:251
L:2904 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:251
L:2905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:251 after pos.:0
L:3271 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:284
L:3272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:0
L:3319 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:288
L:3320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:288 after pos.:0
L:3336 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:289
L:3340 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:289
L:3344 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:289
L:3348 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:289
L:3354 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:289
L:3355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:289 after pos.:0
L:3519 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:3523 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:304
L:3527 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:304
L:3531 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:304
L:3535 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:304
L:3536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304 after pos.:0
L:3550 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:305
L:3646 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:313
L:3647 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:313 after pos.:0
L:3683 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:316
L:3896 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:335
L:3897 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:335 after pos.:0
L:3915 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:336
L:3916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:336 after pos.:0
L:3930 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:337
L:3931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:337 after pos.:0
L:3945 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:338
L:3946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:338 after pos.:0
L:4081 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:350
L:4096 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:351
L:4111 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:352
L:4138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:354 after pos.:0
L:4181 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:4198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:358 after pos.:0
L:4838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:414 after pos.:0
L:7986 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:698 after pos.:0
L:8089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:707 after pos.:0
L:8115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:709 after pos.:0
L:8130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:710 after pos.:0
L:8336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:728 after pos.:0
L:8351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:729 after pos.:0
L:8366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:730 after pos.:0
L:8381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:731 after pos.:0
L:8396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:732 after pos.:0
L:8716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:760 after pos.:0

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Input Set : A:\Seqlist.txt
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L:8742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:762 after pos.:0
L:8757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:763 after pos.:0
L:8767 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:8780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:764 after pos.:0
L:9182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:798 after pos.:0
L:9212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:800 after pos.:0
L:9231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:801 after pos.:0
L:9250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:802 after pos.:0
L:9269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:803 after pos.:0
L:11488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1001 after pos.:0
L:11910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1039 after pos.:0
L:12105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1056 after pos.:0